

A mobile communication system comprising:
an external connector having a first arrangement structure;
a first external interface structure in accordance with a first protocol;
a second external interface structure in accordance with a second protocol;
a determination means for determining an interface to be used from the first and second external interface structures based on a determination criterion.

The mobile communication system according to claim 1, wherein a physical connector is shared between the first interface and the second interface.

The mobile communication system according to claim 1, wherein the first interface corresponds to a first external interface and the second interface corresponds to a second external interface.

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3. The mobile communication terminal device

according to claim 1, where
the first determining
value output from a speed
connector when an external
external connector to determine
incorporated in the external

the first determination means detects a voltage value output from a specific terminal via external connector when an external device is connected to the external connector to determine a third interface incorporated in the external devices.

4. The mobile communication terminal device according to claim 1, wherein

the first determination means detects an
10 identification signal pattern output from a specific
terminal via the external connector when an external
device is connected to the external connector to
determine a third interface incorporated in the
external device.

15 5. The mobile communication terminal device according to claim 1, further comprising first display displaying a determination result by the first determination means.

6. The mobile communication terminal device
20 according to claim 1, further comprising:

authentication means for conducting a
authentication procedure between the mobile
communication terminal device and an external device
via an external interface selected from first and
25 second external interfaces;

second determination means for determining
a connection form between the mobile communication

terminal device itself and the external device based on an authentication result of the authentication means;

connection control means for controlling a connection of the external device to the mobile communication terminal device itself based on a determination result of the second determination means.

7. The mobile communication terminal device according to claim 6, wherein said second determination means detects a specification of an external device and determines whether or not the external device can be connected to the mobile communication terminal device itself.

8. The mobile communication terminal device according to claim 3, further comprising second display displaying the determination result by said second determination means.

9. A mobile communication terminal device comprising:

an external connector comprising a USB (Universal Serial Bus) terminal and an additional terminal;

a first external interface providing a USB slave function;

a second external interface which is different from the first external interface concerning a protocol;

first determination means for determining whether or not the an external device connected to the external

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connector comprises a third external interface
providing a USB host function;

interface selection means for selecting the first
external interface when it is determined that an
external device provides a USB host function while
selecting the second external interface when it is
determined that the external device does not provide
a USB host function based on a determination result of
the first determination means.

10. The mobile communication terminal device
according to claim 9, wherein

said first determination means comprises:

means for detecting a voltage value output from
a specific terminal via the external connector when the
external device is connected to the external connector;
and

means for determining a kind of the third external
interface incorporated in the external device based on
the detection result by said voltage value detection
means.


11. The mobile communication terminal device
according to claim 9, wherein

the first determination means comprises;

means for detecting identification signal pattern
output from a specific terminal via the external
connector in the case where the external device are
connected to the external connector; and

for determining type of the third external interface incorporated in the external device based on the detection result of said signal pattern detection means.

5 12. The mobile communication terminal device according to claim 9, wherein said first external interface transmits a signal between the external device and the mobile communication terminal device via the USB terminal of the external connector in the case
10 where said first external interface is selected, while the second external interface selectively uses a part of the USB terminal of the external connector and an additional terminal to transmit a signal between the external device and the mobile communication terminal
15 device in the case where the second external interface is selected.

 13. The mobile communication terminal device according to claim 9, further comprising;
 authentication means for conducting authentication
20 procedure between the external device and the mobile communication terminal device via the first external interface;

 second determination means for determining a connection form between the terminal of the mobile
25 communication terminal device itself and the external device based on the authentication result by the authentication means; and

connection control means for controlling the connection of the external device to the mobile communication terminal device itself on the basis of the determination result of the second determination means.

14. The mobile communication terminal device according to claim 13, wherein the authentication means determines whether or not the external device is a battery charger;

the second determination means, in the case where the authentication means determines that the external device is a battery charger, detects a standard value of the battery charger to determine whether or not the battery charger can be connected; and

the connection control means connects the battery charger and a power source circuit in the mobile communication terminal device in the case where the second determination means determines that the battery charger can be connected, while cut off the battery charger from the power source circuit in the case where the second determination means determines that the battery charger cannot be connected.